

**NOISE ABSORBING STRUCTURE FOR AUTOMOBILE ENGINE**

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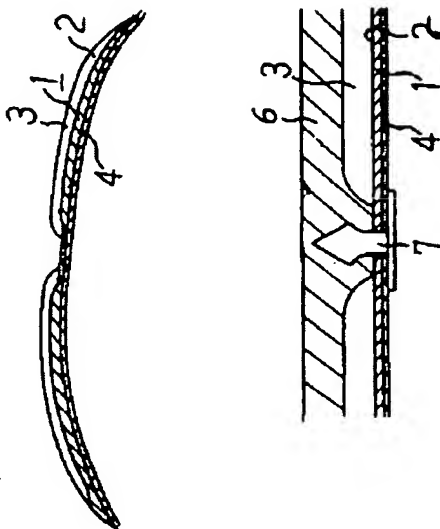
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**Abstract of JP55104528**

**PURPOSE:** To absorb noises of engine over a wide frequency zone, by forming recesses defining respectively an independent air chamber on one surface of a high-density fiber plate, attaching a rubber layer on the other surface of said fiber plate, and fixing the fiber plate to the bonnet with the rubber layer being located on the side of engine.

**CONSTITUTION:** An arbitrary number of recesses 2 shaped in arbitrary forms are formed, with proper intervals, on one surface of high-density fiber plate 1 which is obtained by compressing fibrous mat into a plate form, so that these recesses 2 serve as air chambers 3. On the other hand, rubber layer 4 is attached on the other surface of fiber plate 1. Such a plate 1 is fixed to bonnet 6 by means of pins 7, in the manner that rubber layer 4 faces engine. Here, the material for fiber plate 1 uses glass wool or the like as inorganic fiber and uncured wool at the rate of 200-800g/m<sup>2</sup>, and it is shaped into a required form by way of pressure molding at 100-800kg/m<sup>2</sup>. With such an arrangement, it is enabled to absorb noises effectively in all of high, medium and low frequency zones.



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